

## Migration of different source languages to an execution medium

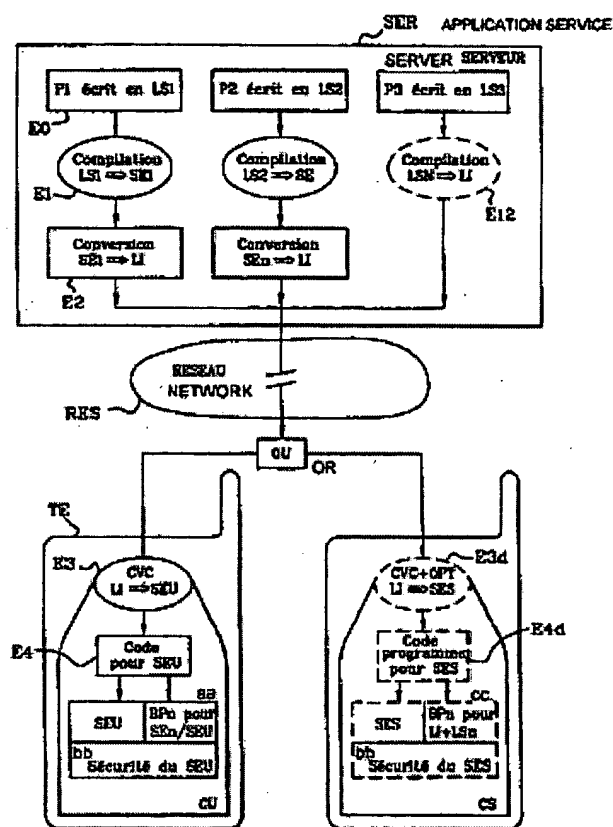
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### Abstract of FR2794543

The invention automatically executes in a single executing medium several programmes (P1, PN) written in source languages (LS1, LSN) whereto respective executing media (SE1, SEN) are dedicated, without restricting a programmer to a single source language for a respective type of executing medium. Each programme is compiled (E1, E2; E12) into a programme expressed in an intermediate language (LI) representing a minimum subset of source languages. In a data processing means such as a chip card (CU; CS), an executing medium (SEU; SES) is dedicated to the intermediate language. The programme in intermediate language is loaded into a respective programming library (BPn) adapting the respective source language to the intermediate language so as to execute the programme in intermediate language in the executing medium (SEU; SES).



EO... PROGRAMME 1 WRITTEN IN SOURCE LANGUAGE 1  
 E1... COMPILE SOURCE LANGUAGE 1 ⇒ EXECUTION SYSTEM 1  
 E2... CONVERSION EXECUTION SYSTEM 1 ⇒ INTERMEDIATE LANGUAGE  
 A2... PROGRAMME 2 WRITTEN IN SOURCE LANGUAGE 2  
 B2... COMPILE SOURCE LANGUAGE 2 ⇒ EXECUTION SYSTEM  
 CC... CONVERSION EXECUTION SYSTEM ⇒ INTERMEDIATE LANGUAGE  
 DO... PROGRAMME 3 WRITTEN IN SOURCE LANGUAGE 3  
 E12... COMPILE SOURCE LANGUAGE ⇒ N INTERMEDIATE LANGUAGE  
 E4... CODE FOR SEU  
 E4d... CODE SES PROGRAM  
 aa... BPn FOR SEU/SEU  
 bb... SEU SECURITY  
 cc... BPn FOR LI+LSn

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